



Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640110.48

Borehole ID: HGL35(24MW12B)
Date: 11/18/2002 24-MW-12A
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 457.75
Easting: 1768360.579

SUBSURFACE PROFILE				SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)	
2		Sand with silty clay and gravel Pale yellowish brown, 80% medium grained sand, 15% silty clay, 5% gravel, fill	fill	455				Normally shallow zone does not exist here. 1325 Set shallow temporary well at 25'. (May be infiltration from fire hydrant. Hydrant has been in constant use due to IRP Site 20 construction.) Set intermediate temporary well at 36.5'.
4			SP	453				
6		Poorly graded sand Pale yellowish brown, moist to slightly moist, loose, soft, 98% medium grained sand, 2% gravel	CL	448	100	4/5/7	3.2	
8								
10		Silty clay Dark yellowish brown with dark yellowish orange mottling, moist, plastic, 80% clay, 20% silt	SM		100	15/34/40	4.8	
12								
14								
16		Sandy silt Grayish black with dusky blue green mottling (10%), moist, slightly stiff, 80% silt, 20% medium grained sand	SP	440	100	17/32/34	2.7	
18								
20		Poorly graded sand Pale yellowish brown with a hue of grayish blue green, very moist, soft, 100% medium grained sand with trace clay	SC	437	100	22/41/50 for 2"	3.6	
22			SM					
24		clayey sand lense from 19.5' to 20.5'						
26		Silty sand Pale yellowish brown, very moist to saturated, soft, 80% medium grained sand, 20% silt	SC	431	100	21/31/31	2.1	
28			SP					
30		clayey sand lense from 25.5' to 26.5'			90	21/50/50	1.6	
32		Poorly graded sand Pale yellowish brown with iron oxide staining (5%), very moist, moderately dense, 100% fine grained sand		422				Set intermediate temporary well at 36.5'.
34								
36			SC	421	100	12/23/33	2.5	
38		Clayey sand Pale yellowish brown, moist, dense, 75% fine grained sand, 25% clay	SP					
40					90	19/45/50 for 5"	4.5	

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: CA Mod Split Spoon

HydroGeoLogic, Inc.
4600 Northgate Blvd., Suite 207
Sacramento, CA 95834
(916) 614-8770 FAX (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 75'

Sheet: 1 of 2



Project No: MCC001901030201
Project: Final Remedial Investigation
Client: AFCEE
Location: Site 24 - Vandenberg AFB
Northing: 640110.48

Borehole ID: HGL35(24MW12B)
Date: 11/18/2002
Geologist: M. Jackson
Checked By: D. Smith, R.G.
Ground Surface Elevation(ft msl): 457.75
Easting: 1768360.579

SUBSURFACE PROFILE					SAMPLE			Water Level	Remarks
Depth	Symbol	Description	USCS	Elevation	Recovery %	Blow Counts	PID (ppm)		
42		Poorly graded sand Pale yellowish brown, saturated, soft, 100% medium grained sand	SP		90				
44									
46					100	16/43/48	1.3		
48		unit becomes 100% medium grained sand with trace small gravel (chert) and very moist to saturated at 50'							
50					30	24/50 for 5"	1.5		
52		unit becomes saturated at 55'							
54									
56					100	15/23/27	2.0		
58		clay with sand lense from 57' to 58.5'	SC	399					
60		Clayey silt Pale yellowish brown with 20% iron oxide staining, moist, moderately stiff, low plasticity, 80% silt, 20% clay	ML	395	100	11/15/20	1.5		
62									
64		Sand with silt Pale yellowish brown, moist to very moist, soft, 90% fine grained sand, 10% silt	SM	391					
66			SC		100	15/27/20	1.0		
68		clayey sand lense from 65.5' to 66.5'	SP						
70		Sand with gravel Pale yellowish brown, moist to very moist, loose, 80% coarse sand, 20% gravel (angular to subrounded, variegated, largest 5 mm x 2 mm)		381					
72									
74		unit becomes very moist to saturated at 68.5'							
76					100	21/40/50	2.8		
78		minor lense of silty clay at 71'							
80		cobble zone from 74'-75' (subrounded)							

Boring converted to deep well 24MW12B. Well 24MW12A placed adjacent to this boring.

Drilled By: Layne Christensen

Drill Method: Dual Tube Percussion

Drilling Equipment: AP-1000

Sampling Equipment: CA Mod Split Spoon

HydroGeoLogic, Inc.
4600 Northgate Blvd., Suite 207
Sacramento, CA 95834
(916) 614-8770 FAX: (916) 614-8775

Boring Diameter: 10"

Total Depth Drilled: 75'

Sheet: 2 of 2